Wednesday, May 13, 2026

Electrafil® 1105-10819 NAT

Techmer Polymer Modifiers - *Polyetheretherketone*

Units SI

Action **Legend (Open)**

General Information

Product Description		
30% Carbon Fiber		
General		
Material Status	• Commercial: Active	
Availability	• North America	
Features	• Conductive	
Appearance	• Black	• Colors Available
Processing Method	• Injection Molding	

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.40	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (24 hr)	0.040	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	255	MPa	ASTM D638
Tensile Elongation (Yield)	> 1.7	%	ASTM D638
Flexural Modulus	22100	MPa	ASTM D790
Flexural Strength	372	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	75	J/m	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	118		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	343	°C	ASTM D648
Deflection Temperature Under Load (1.8 MPa, Unannealed)	335	°C	ASTM D648
CLTE - Flow	1.1E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+4	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.8 mm)	V-0		UL 94

Notes

[1] Typical properties: these are not to be construed as specifications.

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